

September 6, 1985

TO: File

FROM: Pamela Grubaugh-Littig, Reclamation Engineer *pgl*

RE: Survey Determines Disturbed Area is 6.57 Acres, Vipont Mines, Ltd., Vipont Mine, ACT/003/005, Box Elder County, Utah

Jim Fricke, Glen Baldwin (Utah Department of Transportation [UDOT]) and Pamela Grubaugh-Littig surveyed the disturbances at the Vipont Mine on Thursday, September 5, 1985. There are four areas that were measured:

1. Upper pad disturbance (site of old mine dump workings that are the ore for the heap leach).
2. Middle pad (old mine dump workings that are the ore for the heap leach).
3. Facilities area, including buildings, equipment, storage site, heap leach pads and stockpiles.
4. Road (from upper pad to facilities area).

1. The upper pad and facilities areas were surveyed by setting up three survey points. The dimensions of the area were:

$S_1 = 346 \text{ ft}$   
 $S_2 = 124 \text{ ft}$   
 $S_3 = 383 \text{ ft}$   
 $S_4 = 728 \text{ ft}$

Area = 84,515 sq ft = 1.94 ac

2. The middle pad includes .2 mile of road (average width = 10 feet) (measured by odometer on truck).

Length from main road - 1,056 ft  
About 200 ft was 30 ft wide (pad)

1,056 ft	
- 200 ft (less pad length)	
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856 ft x 10 ft =	8,560 sq ft
200 ft x 30 ft =	6,000 sq ft
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	14,560 sq ft = .33 ac

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3. The facilities area (building, heap leach pad and dump) were surveyed using three points. The dimensions of the area are:

S<sub>1</sub> = 668 ft  
S<sub>2</sub> = 255 ft  
S<sub>3</sub> = 706 ft  
S<sub>4</sub> = 167 ft

Area = 135,018 sq ft = 3.1 ac

4. The road was measured from the upper pad to the upper gate at the facilities area by the odometer on the truck (the facilities area was not included):

Length = 1.0 mi  
Average Width = 10 ft  
Area = 52,800 sq ft = 1.2 ac

The total areas were:

1.	Upper pad =	1.94 ac
2.	Middle pad =	0.33 ac
3.	Facilities =	3.10 ac
4.	Road =	<u>1.20 ac</u>
		6.57 ac

btb  
cc: Lowell Braxton  
Jim Fricke  
John Whitehead  
9075R-16 & 17